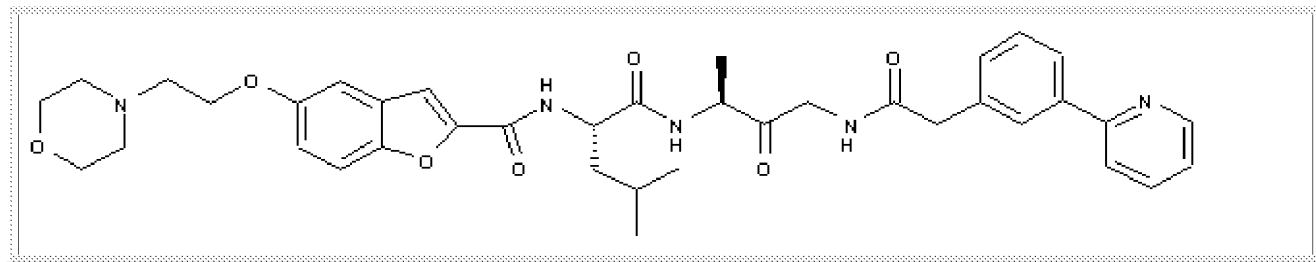


I. AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (currently amended) A method for lowering intraocular pressure, said method comprising topically administering to the eye of a patient in need thereof a therapeutically effective amount of a composition comprising at least one cathepsin K antagonist, wherein the cathepsin K antagonist is selected from the group consisting of monensin, brefeldin A, ~~tunicamycin~~, 1,3-bis(acylamino)-2-propanone, cycloaltilisin 6, cycloaltilisin 7, 3-[2,4-dihydroxyphenyl]-propan-3-one (AC-3-1), 5,7,4'-trihydroxy-8-geranylflavanone (AC-3-3), 3,4,2',4'-tetrahydroxy-2-geranyldihydrochalcone (AC-5-1), haploscleridamine, 5-(2-morpholin-4-yl-ethoxy)-benzofuran-2-carboxylic acid ((S)-3-methyl-1-[3-oxo-1-[2-(3-pyridin-2-yl-phenyl)-ethenoyl]-azepan-4-ylcarbanoyl]-butyl)-amide (SB-331750), N-[3-methyl-1(S)-[N-[3-oxo-1-pyridin-2-ylsulfonyl]perhydroazepin-4(S)-yl]carbamoyl]butyl]-1-benzofuran-2-carboxamide (SB-357114), peptidomimetic aminomethyl ketones, α,α' -diacylamino ketones, alkoxymethyl ketones, α -alkoxyketones, cyanamides, N_α -acyl- α -amino acid-(arylaminoethyl)amides, and



(SB-290190).

Claim 2 (cancelled)

Claim 3 (withdrawn) The method of claim 1, wherein the cathepsin K antagonist is an arylaminoethyl amide.

Claim 4 (withdrawn) The method of claim 1, wherein the cathepsin K antagonist is selected from the group consisting of:

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(2-carboxythiazol-4-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(2-carboxamidothiazol-4-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(2-carboethoxythiazol-4-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(2-cyanothiazol-4-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-[2-(N'-benzylcarboxamido)thiazol-4-yl]-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-[2-[N'-3-methylpropyl)carboxamido]thiazol-4-yl]-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-[2-[N'-2-phenylethyl) carboxamido]thiazol-4-yl]-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(4-carboethoxythiazol-2-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(4-carboxythiazol-2-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(4-carboethoxythiadiazol-2-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(2-carbo-2,2,2-trifluoroethoxythiazol-4-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(4-carboethoxyoxadiazol-2-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl-L-leucinyloxy)amino-N-[1'-(4-carboethoxythiazol-2-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(4-carboxamidooxadiazol-2-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(2-carboethoxythiazol-4-yl)-3'-methylbutyl]-3-phenylpropanamide;

(2S,1'S)-2-(benzyloxycarbonyl-L-leucinyloxy)amino-N-[1'-(2-carboethoxythiazol-4-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(5-mercapto-1,2,4-oxadiazol-3-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(2-mercaptothiazol-4-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S)-2-(benzyloxycarbonyl)amino-N-(4-carboethoxythiazol-2-yl)methyl-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(2-benzyloxycarbonylthiazol-4-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-4-methyl-N-[3'-methyl-1'-(2-phenoxy carbonylthiazol-4-yl)butyl]pentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-4-methyl-N-[3'-methyl-1'-[2-(2-methylpropyloxy carbonyl)thiazol-4-yl]butyl]pentanamide;

(2R,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(carboethoxythiazol-2-yl)ethyl]-4-methylpentanamide;

(2R,1'R)-2-(benzyloxycarbonyl)amino-N-[1'-(4-carbethoxythiazol-2-yl)ethyl]-4-methylpentanamide;

(2S,1'S)-N-[1'-(2-aminothiazol-4-yl)-3'-methylbutyl]-2-(benzyloxycarbonyl)amino-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(2-carboethoxythiazol-4-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(4-carboethoxythiazol-2-yl)-3'-methylbutyl]-4-methylpentanamide;

2S,1'S)-2-(benzyloxycarbonyl-L-leuciny)amino-N-[1'-(4-carboethoxythiazol-2-yl)-3'-methylbutyl]-4-methylpentanamide;

(1S)-N-[4-[(1-benzyloxycarbonylamino)-3-methylbutyl]thiazol-2-ylcarbonyl]-N'-(N-benzyloxycarbonyl-L-leuciny)hydrazide;

N-benzyloxycarbonyl-L-leuciny-N'-benzyloxycarbonyl-L-leuciny-L-leucinyhydrazide;

(1S)-N-[2-[(1-benzyloxycarbonylamino)-3-methylbutyl]thiazol-4-ylcarbonyl]-N'-(N-

benzyloxycarbonyl-L-leucinyl)hydrazide;
2,2'-(N,N'-bis-benzyloxycarbonyl-L-leucinyl)carbohydrazide;
2,2'-(N,N'-bis-cyclohexylacetyl)carbohydrazide;
2,2'-(N,N'-bis-4-methylpentanoyl)carbohydrazide;
2,2'-(N,N'-bis-cyclopentylacetyl)carbohydrazide;
2,2'-(N,N'-bis-benzyloxycarbonylglyciny)carbohydrazide;
2,2'-(N,N'-bis-acetyl-L-leuciny)carbohydrazide;
2,2'-(N,N'-bis-benzyloxycarbonyl-L-alanyl)carbohydrazide;
2-(N-benzyloxycarbonyl-L-leuciny)-2'-[N'-(4-methylpentanoyl)]carbohydrazide;
2,2'-(N,N'-bis-benzyloxycarbonyl-L-leuciny)carbohydrazide;
bis-(Cbz-leuciny)-1,3-diamino-propan-2-one;
bis-1,3-(4-phenoxy-benzoyl)-diamino-propan-2-one;
1-(Cbz-leuciny)-amino-3-(acetyl-leuciny)-amino-propan-2-one;
1-(Cbz-leuciny)-amino-3-(Cbz-glutamyl-t-butylester)-amino-propan-2-one;
1-(Cbz-leuciny)-amino-3-(Cbz-glutamyl)-amino-propan-2-one;
bis-1,3-(Cbz-leuciny)-diamino-(S)-butanone-2-one;
1-(Cbz-leuciny)-amino-3-(Cbz-phenylalanyl)-amino-propan-2-one;
1-(Cbz-leuciny)-amino-3-(Cbz-norleuciny)-amino-propan-2-one;
1-(Cbz-leuciny)-amino-3-(Cbz-norvaliny)-amino-propan-2-one;
bis-1,3-(Cbz-leuciny)-diamino-5-methyl-(S)-hexan-2-one;
1-(acetyl-leuciny)-amino-3-(4-phenoxy-benzoyl)-amino-propan-2-one;
1-(Cbz-homo-leuciny)-amino-(Cbz-leuciny)-3-amino-propan-2-one;
1-(Cbz-leuciny)-amino-3-(acetyl-leuciny)-amino-propan-2-one;

bis-1,3-(4-(3-chloro-2-cyano-phenoxy)-phenylsulfonamido)-propan-2-one;
bis-1,3-(4-phenoxy-phenylsulfonamido)-propan-2-one;
1-(Cbz-leuciny1)-amino-3-(4-(3-chloro-2-cyano-phenoxy)-phenylsulfonamido)-propan-2-one;
1-(Cbz-leuciny1)-amino-3-(tosyl-amino)-propan-2-one;
1-(Cbz-leuciny1)-amino-3-((4-phenoxy-phenyl)-sulfonamido)-propan-2-one;
1-(Cbz-leuciny1)-amino-3-(2-dibenzofuransulfonamido)-propan-2-one;
1-(Cbz-homo-leuciny1)-amino-3-(2-dibenzofuransulfonamido)-propan-2-one;
1-(Cbz-leuciny1)-amino-3-(2-dibenzofuransulfonamido)-(S)-butan-2-one;
1-(Cbz-leuciny1)-amino-3-((4-phenoxy-phenyl)-sulfonamido)-propan-2-one;
1-(Cbz-leuciny1)-amino-3-(2-dibenzofuransulfonamido)-propan-2-one;
1-(Cbz-leuciny1)-amino-3-(2-dibenzofuransulfonamido)-(S)-butan-2one;
(S)-Phenylmethyl [1-[[[3-[benzyloxycarbonyl-leuciny1-amino]-2-oxopropyl]-1-(benzyl)amino]carbonyl]-3-methylbutyl]carbamate;
(S)-Phenylmethyl [1-[[[3-[(2-dibenzofuranylsulfonyl)amino]-2-oxopropyl]-3-(benzyl)amino]carbonyl]-3-methylbutyl]carbamate;
(S)-Phenylmethyl [1-[[[3-[(2-dibenzofuranylsulfonyl)amino]-2-oxopropyl]-3-(4-pyridiny1methyl)amino]carbonyl]-3-methylbutyl]carbamate;
1-[[3-[(2-dibenzofuranylsulfonyl)amino]-2-oxopropyl]-3-(4-pyridiny1methyl)] benzamide;
(S)-Phenylmethyl [1-[[[3-[(2-dibenzofuranylsulfonyl)amino]-2-oxopropyl]-1-(4-pyridiny1methyl)amino]carbonyl]-3-methylbutyl]carbamate;
(S)-Phenylmethyl [1-[[[3-[(2-dibenzofuranylsulfonyl)amino]-2-oxopropyl]-1-(4-pyridiny1methyl)amino]carbonyl]-3-methylbutyl]carbamate;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(4-phenoxyphenylsulfonyl)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-alanyl)]-2'-[N-(N-benzyloxycarbonyl-L-leuciny)]
carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(4-phenylbenzoyl)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(4-methoxybenzoyl)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(4-phenoxybenzoyl)]carbohydrazide;

2-(N-acetyl)-2'-[N'-(N-benzyloxycarbonyl-L-leuciny)]carbohydrazide;

2-[N-(N-acetyl-L-leuciny)]-2'-[N'-(N-benzyloxycarbonyl-L-alanyl)]carbohydrazide;

2-[N-(N-acetyl-L-alanyl)]-2'-[N'-(N-benzyloxycarbonyl-L-leuciny)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(4-(N,N-dimethylaminomethyl)
benzoyl)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(4-hydroxy-[3-(4-
morpholinomethyl)])benzoyl]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(4-[(N,N-dimethylaminomethyl)
benzyloxy]carbonyl-L-leuciny)]carbohydrazide;

2-(N-benzoyl)-2'-[N'-(N-benzyloxycarbonyl-L-leuciny)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(3-(4-morpholinomethyl)benzoyl)]
carbohydrazide;

2-[N-(3-benzyloxybenzoyl)]-2'-[N'-(N-benzyloxycarbonyl-L-leuciny)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(4-[3-N,N-dimethylamino)-1-propyloxy]
benzoyl)]carbohydrazide;

2-[N-(2-benzyloxybenzoyl)]-2'-[N'-(N-benzyloxycarbonyl-L-leuciny)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(3-(4-pyridylmethoxy)benzoyl)]

carbohydrazide;

2-[N-(4-benzyloxybenzoyl)]-2'-[N'-(N-benzyloxycarbonyl-L-leuciny)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(3-benzyloxy-5-methoxy)benzoyl]

carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(3-benzyloxy-4,5-dimethoxy)

benzoyl]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(3-benzyloxy-5-ethoxy)

benzoyl]carbohydrazide;

2-[N-(N-benzyloxycarbonylglyciny)]-2'-[N'-(N-benzyloxycarbonyl-L-leuciny)]

carbohydrazide;

2-[N-(3-benzyloxybenzoyl)]-2'-[N'-(N-benzyloxycarbonyl-L-proliny)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(4-phenylphenylacetyl)]carbohydrazide;

(2'S)-2-[N-(3-benzyloxybenzoyl)]-2'-[N'-(N-benzyloxycarbonyl-2-aminobutyryl)]

carbohydrazide;

2,2'-[N,N'-[bis-4-phenylphenylacetyl]]carbohydrazide;

(2'RS)-2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[2-(4-phenylphenoxy)propionyl]

carbohydrazide;

2-[N-(3-benzyloxybenzoyl)]-2'-[N'-(4-methylpentanoyl)]carbohydrazide;

(2RS,2'RS)-2,2'-[N,N'-[bis-[2-(4-phenylphenyl)-4-methylpentanoyl]]]carbohydrazide;

(2'RS)-2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-[2-(4-phenylphenyl)-4-

methylpentanoyl]]carbohydrazide;

(2'RS)-2-[N-(3-benzyloxybenzoyl)]-2'-[N-[2-(4-phenylphenyl)-4-methylpentanoyl]]
carbohydrazide;

2-[N-(3-benzyloxybenzoyl)]-2'-[N'-(N-benzyloxycarbonyl-N-methyl-L-leuciny)]
carbohydrazide;

2-[N-(3-benzyloxybenzoyl)]-2'-[N'-[N-(2-pyridinylmethoxycarbonyl)-L-leuciny]]
carbohydrazide;

2-[N-[3-(4-pyridylmethoxy)benzoyl]]-2'-[N'-[N-(2-pyridinylmethoxycarbonyl)-L-
leuciny]]carbohydrazide;

(2RS)-2-[N-[2-(4-phenylphenyl)-4-methylpentanoyl]]-2'-[N'-[N-(2-pyridinylmethoxy
carbonyl)-L-leuciny]]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-[2-(4-phenylphenyl)-4-methylpentanoyl]]
carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-[2-(4-phenylphenyl)-4-methylpentanoyl]]
carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-[N-(4-phenylphenyl)-N-(2-methylpropyl)
carbamoyl]]carbohydrazide;

2-[N-(3-benzyloxybenzoyl)]-2'-[N'-(N-methyl-L-leuciny)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(N-methyl-L-leuciny)]carbohydrazide;

(1S)-N-[2-[(1-benzyloxycarbonylamino)-3-methylbutyl]thiazol-4-ylcarbonyl]-N'-(4-
phenoxyphenylsulfonyl)hydrazide;

(1S)-N-[4-[1-(N-benzyloxycarbonyl-L-leuciny)amino]-3-methylbutyl]thiazol-2-ylcarbonyl]-

N'-(N-benzyloxycarbonyl-L-leucinyl)hydrazide;

(1S)-N-[2-[(1-benzyloxycarbonylamino)-3-methylbutyl]thiazol-4-ylcarbonyl]-N'-(4-phenylphenylacetyl)hydrazide;

(1S)-N-[2-[(1-benzyloxycarbonylamino)-3-methylbutyl]thiazol-4-ylcarbonyl]-N'-[3-(4-pyridinylmethoxy)benzoyl]hydrazide;

N-[2-(2-chlorophenoxymethyl)thiazol-4-ylcarbonyl]-N'-[N-(4-pyridinylmethoxycarbonyl)-L-leucinyl]hydrazide;

N-[N-(4-pyridinylmethoxycarbonyl)-L-leucinyl]-N'-[2-[4-(1,2,3-thiadiazol-4-yl)phenyl]thiazol-4-ylcarbonyl]hydrazide;

N-[2-[3-(4-chlorophenylsulfonylmethyl)thien-2-yl]thiazol-4-ylcarbonyl]-N'-[N-(4-pyridinylmethoxycarbonyl)-L-leucinyl]hydrazide;

(1S,2'RS)-N-[2-[(1-benzyloxycarbonylamino)-3-methylbutyl]thiazol-4-ylcarbonyl]-N'-[2'-(4-phenylphenylacetyl)-4-methylpentanoyl]hydrazide;

N-[2-(3-benzyloxyphenyl)thiazol-4-ylcarbonyl]-N'-[N-(2-pyridinylmethoxycarbonyl)-L-leucinyl]hydrazide;

(1RS)-N-[2-[1-(4-phenylphenyl)-3-methylbutyl]thiazol-4-ylcarbonyl]-N'-[N-(4-pyridinylmethoxycarbonyl)-L-leucinyl]hydrazide;

N-[2-(2-benzyloxyphenyl)thiazol-4-ylcarbonyl]-N'-[N-(4-pyridinylmethoxycarbonyl)-L-leucinyl]hydrazide;

N-[2-[N-methyl-N-(4-phenylphenyl)amino]thiazol-4-ylcarbonyl]-N'-[N-(4-pyridinylmethoxycarbonyl)-L-leucinyl]hydrazide;

N-(N-benzyloxycarbonyl-L-leucinyl)-N'-[2-(4-phenylbenzyl)thiazol-4-ylcarbonyl]hydrazide;

N-[2-(4-phenylphenylbenzyl)thiazol-4-ylcarbonyl]-N'-[N-(4-pyridinylmethoxycarbonyl)-L-leuciny]hydrazide;

N-(N-benzyloxycarbonyl-L-leuciny)-N'-[2-[N-(2-methylpropyl)-N-phenylamino]thiazol-4-ylcarbonyl]hydrazide;

N-[2-[N-(2-methylpropyl)-N-phenylamino]thiazol-4-ylcarbonyl]-N'-[N-(4-pyridinylmethoxycarbonyl)-L-leuciny]hydrazide;

N-[2-(2-benzyloxyphenyl)thiazol-4-ylcarbonyl]-N'-[N-(3-pyridinylmethoxycarbonyl)-L-leuciny]hydrazide;

N-[2-(2-benzyloxyphenyl)thiazol-4-ylcarbonyl]-N'-[N-(2-pyridinylmethoxycarbonyl)-L-leuciny]hydrazide;

N-(N-benzyloxycarbonyl-N-methyl-L-leuciny)-N'-[2-(2-benzyloxyphenyl)thiazol-4-ylcarbonyl]hydrazide;

N-[2-[N-(2-methylpropyl)-N-phenylamino]thiazol-4-ylcarbonyl]-N'-[N-(2-pyridinylmethoxycarbonyl)-L-leuciny]hydrazide;

N-[2-[N-(2-methylpropyl)-N-phenylamino]thiazol-4-ylcarbonyl]-N'-[N-(3-pyridinylmethoxycarbonyl)-L-leuciny]hydrazide;

N-[2-(2-methoxyphenyl)thiazol-4-ylcarbonyl]-N'-[N-(4-pyridinylmethoxycarbonyl)-L-leuciny]hydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-[4-(N,N-dimethylaminomethyl)benzyloxy]carbonyl-L-leuciny]carbonhydrazide;

(3S,4S)-3-(2S-2-benzyloxycarbonylamino-2-cyclohexyl-methyl-acetamido)-4-acetoxy-azetidin-2-one;

(3S,4S)-3-{2S-2-(3-phenylpropionoyl)amino-2-cyclo-hexylmethyl-acetamido}-4-acetoxy-

azetidin-2-one;

(3S,4S)-3-{2S-2-(3-phenylpropionoyl)amino-2-cyclo-hexylmethyl-acetamido}-4-{4-(2S-2-amino-2-carboxy-ethyl)-phenoxy}-azetidin-2-one;

(3S,4R)-3-{2S-2-(3-phenylpropionoyl)amino-2-cyclo-hexylmethyl-acetamido}-4-{4-(2S-2-amino-2-carboxy-ethyl)-phenoxy}-azetidin-2-one;

(3S,4SR)-3-{2S-2-(3-phenylpropionoyl)amino-2-cyclo-hexylmethyl-acetamido}-4-phenylthio-azetidin-2-one;

(3S,4SR)-3-{2S-2-(3-phenylpropionoyl)amino-2-cyclo-hexylmethyl-acetamido}-4-phenylsulfonyl-azetidin-2-one;

(3S,4S)-3-{2S-2-(benzylaminocarbonyl)amino-2-cyclo-hexylmethyl-acetamido}-4-acetoxy-azetidin-2-one;

(3S,4S)-3-{2S-2-(phenylethenylsulfonyl)amino-2-cyclohexylmethyl-acetamido}-4-acetoxy-azetidin-2-one;

(3S,4S)-3-(2S-2-benzyloxycarbonylamino-2-cyclohexylmethyl-acetamido)4-(3-methylphenoxy)-azetidin-2-one;

(3S,4R)-3-(2S-2-benzyloxycarbonylamino-2-cyclohexylmethyl-acetamido)4-(3-methylphenoxy)-azetidin-2-one;

(3S,4S)-3-{2S-2-[3-(pyridin-4-yl)propenoyl]amino-2-cyclohexylmethyl-acetamido}-4-phenoxy-azetidin-2-one; and

(3S,4S)-3-{2S-2-[3-(pyridin-3-yl)propenoyl]amino-2-cyclohexylmethyl-acetamido}4-phenoxy-azetidin-2-one.

Claim 5 (withdrawn) A composition for the treatment of glaucoma, said composition comprising a therapeutically effective amount of at least one cathepsin K antagonist and a pharmaceutically acceptable excipient.

Claim 6 (withdrawn) The composition of claim 5, wherein the cathepsin K antagonist is selected from the group consisting of arylaminoethyl amides, monensin, brefeldin A, tunicamycin and 1,3-bis(acylamino)-2-propanone derivatives, cycloaltisin 6, cycloaltisin 7, AC-3-1, AC-3-3, AC-5-1, haploscleridamine, 5-(2-morpholin-4-yl-thoxy)-benzofuran-2-carboxylic acid ((S)-3-methyl-1-[3-oxo-1-[2-(3-pyridin-2-yl-phenyl)-ethenoyl]-azepan-4-ylcarbanoyl]-butyl)-amide (SB-331750), SB-357114, peptidomimetic aminomethyl ketones, α,α' -diacylamino ketones, alkoxymethyl ketones, cyanamides, pyridoxal propionate derivatives (including Clik-164 and Clik-166), SB-290190, α -alkoxyketone derivatives, cyanamide derivatives, and N_α -acyl- α -amino acid-(arylaminomethyl)amides.

Claim 7 (withdrawn) The composition of claim 5, wherein the cathepsin K antagonist is an arylaminomethyl amide.

Claim 8 (withdrawn) The composition of claim 5, wherein the cathepsin K antagonist is selected from the group consisting of:

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(2-carboxythiazol-4-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(2-carboxamidothiazol-4-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(2-carboethoxythiazol-4-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(2-cyanothiazol-4-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-[2-(N'-benzylcarboxamido)thiazol-4-yl]-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-[2-[N'-3-methylpropyl)carboxamido]thiazol-4-yl]-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-[2-[N'-2-phenylethyl) carboxamido]thiazol-4-yl]-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(4-carboethoxythiazol-2-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(4-carboxythiazol-2-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(4-carboethoxythiadiazol-2-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(2-carbo-2,2,2-trifluoroethoxythiazol-4-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(4-carboethoxyoxadiazol-2-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl-L-leuciny)amino-N-[1'-(4-carboethoxythiazol-2-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(4-carboxamidooxadiazol-2-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(2-carboethoxythiazol-4-yl)-3'-methylbutyl]-3-phenylpropanamide;

(2S,1'S)-2-(benzyloxycarbonyl-L-leuciny)amino-N-[1'-(2-carboethoxythiazol-4-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(5-mercapto-1,2,4-oxadiazol-3-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(2-mercaptothiazol-4-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S)-2-(benzyloxycarbonyl)amino-N-(4-carboethoxythiazol-2-yl)methyl-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(2-benzyloxycarbonylthiazol-4-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-4-methyl-N-[3'-methyl-1'-(2-phenoxy carbonylthiazol-4-yl)butyl]pentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-4-methyl-N-[3'-methyl-1'-[2-(2-methylpropyloxy carbonyl)thiazol-4-yl]butyl]pentanamide;

(2R,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(carboethoxythiazol-2-yl)ethyl]-4-methylpentanamide;

(2R,1'R)-2-(benzyloxycarbonyl)amino-N-[1'-(4-carbethoxythiazol-2-yl)ethyl]-4-methylpentanamide;

(2S,1'S)-N-[1'-(2-aminothiazol-4-yl)-3'-methylbutyl]-2-(benzyloxycarbonyl)amino-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(2-carboethoxythiazol-4-yl)-3'-methylbutyl]-4-methylpentanamide;

(2S,1'S)-2-(benzyloxycarbonyl)amino-N-[1'-(4-carboethoxythiazol-2-yl)-3'-methylbutyl]-4-methylpentanamide;

2S,1'S)-2-(benzyloxycarbonyl-L-leuciny)amino-N-[1'-(4-carboethoxythiazol-2-yl)-3'-methylbutyl]-4-methylpentanamide;

(1S)-N-[4-[(1-benzyloxycarbonylamino)-3-methylbutyl]thiazol-2-ylcarbonyl]-N'-(N-benzyloxycarbonyl-L-leuciny)hydrazide;

N-benzyloxycarbonyl-L-leuciny-N'-benzyloxycarbonyl-L-leuciny-L-leucinyhydrazide;

(1S)-N-[2-[(1-benzyloxycarbonylamino)-3-methylbutyl]thiazol-4-ylcarbonyl]-N'-(N-benzyloxycarbonyl-L-leuciny)hydrazide;

2,2'-(N,N'-bis-benzyloxycarbonyl-L-leuciny)carbohydrazide;

2,2'-(N,N'-bis-cyclohexylacetyl)carbohydrazide;

2,2'-(N,N'-bis-4-methylpentanoyl)carbohydrazide;

2,2'-(N,N'-bis-cyclopentylacetyl)carbohydrazide;

2,2'-(N,N'-bis-benzyloxycarbonylglyciny)carbohydrazide;

2,2'-(N,N'-bis-acetyl-L-leuciny)carbohydrazide;

2,2'-(N,N'-bis-benzyloxycarbonyl-L-alanyl)carbohydrazide;

2-(N-benzyloxycarbonyl-L-leuciny)-2'-[N'-(4-methylpentanoyl)]carbohydrazide;

2,2'-(N,N'-bis-benzyloxycarbonyl-L-leuciny)carbohydrazide;

bis-(Cbz-leucinyl)-1,3-diamino-propan-2-one;
bis-1,3-(4-phenoxy-benzoyl)-diamino-propan-2-one;
1-(Cbz-leucinyl)-amino-3-(acetyl-leucinyl)-amino-propan-2-one;
1-(Cbz-leucinyl)-amino-3-(Cbz-glutamyl-t-butylester)-amino-propan-2-one;
1-(Cbz-leucinyl)-amino-3-(Cbz-glutamyl)-amino-propan-2-one;
bis-1,3-(Cbz-leucinyl)-diamino-(S)-butanone-2-one;
1-(Cbz-leucinyl)-amino-3-(Cbz-phenylalanyl)-amino-propan-2-one;
1-(Cbz-leucinyl)-amino-3-(Cbz-norleucinyl)-amino-propan-2-one;
1-(Cbz-leucinyl)-amino-3-(Cbz-norvalinyl)-amino-propan-2-one;
bis-1,3-(Cbz-leucinyl)-diamino-5-methyl-(S)-hexan-2-one;
1-(acetyl-leucinyl)-amino-3-(4-phenoxy-benzoyl)-amino-propan-2-one;
1-(Cbz-homo-leucinyl)-amino-(Cbz-leucinyl)-3-amino-propan-2-one;
1-(Cbz-leucinyl)-amino-3-(acetyl-leucinyl)-amino-propan-2-one;
bis-1,3-(4-(3-chloro-2-cyano-phenoxy)-phenylsulfonamido)-propan-2-one;
bis-1,3-(4-phenoxy-phenylsulfonamido)-propan-2-one;
1-(Cbz-leucinyl)-amino-3-(4-(3-chloro-2-cyano-phenoxy)-phenylsulfonamido)-propan-2-one;
one;
1-(Cbz-leucinyl)-amino-3-(tosyl-amino)-propan-2-one;
1-(Cbz-leucinyl)-amino-3-((4-phenoxy-phenyl)-sulfonamido)-propan-2-one;
1-(Cbz-leucinyl)-amino-3-(2-dibenzofuransulfonamido)-propan-2-one;
1-(Cbz-homo-leucinyl)-amino-3-(2-dibenzofuransulfonamido)-propan-2-one;
1-(Cbz-leucinyl)-amino-3-(2-dibenzofuransulfonamido)-(S)-butan-2-one;
1-(Cbz-leucinyl)-amino-3-((4-phenoxy-phenyl)-sulfonamido)-propan-2-one;

1-(Cbz-leucinyl)-amino-3-(2-dibenzofuransulfonamido)-propan-2-one;

1-(Cbz-leucinyl)-amino-3-(2-dibenzofuransulfonamido)-(S)-butan-2-one;

(S)-Phenylmethyl [1-[[[3-[benzyloxycarbonyl-leucinyl-amino]-2-oxopropyl]-1-(benzyl)amino]carbonyl]-3-methylbutyl]carbamate;

(S)-Phenylmethyl [1-[[[3-[(2-dibenzofuranylsulfonyl)amino]-2-oxopropyl]-3-(benzyl)amino]carbonyl]-3-methylbutyl]carbamate;

(S)-Phenylmethyl [1-[[[3-[(2-dibenzofuranylsulfonyl)amino]-2-oxopropyl]-3-(4-pyridinylmethyl)amino]carbonyl]-3-methylbutyl]carbamate;

1-[[3-[(2-dibenzofuranylsulfonyl)amino]-2-oxopropyl]-3-(4-pyridinylmethyl)] benzamide;

(S)-Phenylmethyl [1-[[[3-[(2-dibenzofuranylsulfonyl)amino]-2-oxopropyl]-1-(4-pyridinylmethyl)amino]carbonyl]-3-methylbutyl]carbamate;

(S)-Phenylmethyl [1-[[[3-[(2-dibenzofuranylsulfonyl)amino]-2-oxopropyl]-1-(4-pyridinylmethyl)amino]carbonyl]-3-methylbutyl]carbamate;

2-[N-(N-benzyloxycarbonyl-L-leucinyl)]-2'-[N'-(4-phenoxyphenylsulfonyl)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-alanyl)]-2'-[N-(N-benzyloxycarbonyl-L-leucinyl)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leucinyl)]-2'-[N'-(4-phenylbenzoyl)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leucinyl)]-2'-[N'-(4-methoxybenzoyl)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leucinyl)]-2'-[N'-(4-phenoxybenzoyl)]carbohydrazide;

2-(N-acetyl)-2'-[N'-(N-benzyloxycarbonyl-L-leucinyl)]carbohydrazide;

2-[N-(N-acetyl-L-leucinyl)]-2'-[N'-(N-benzyloxycarbonyl-L-alanyl)]carbohydrazide;

2-[N-(N-acetyl-L-alanyl)]-2'-[N'-(N-benzyloxycarbonyl-L-leucinyl)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leucinyl)]-2'-[N'-(4-(N,N-dimethylaminomethyl)

benzoyl)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-[4-hydroxy-[3-(4-morpholinomethyl)]benzoyl]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-[4-[(N,N-dimethylaminomethyl)benzyloxy]carbonyl-L-leuciny)]carbohydrazide;

2-(N-benzoyl)-2'-[N'-(N-benzyloxycarbonyl-L-leuciny)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-[3-(4-morpholinomethyl)benzoyl]]carbohydrazide;

2-[N-(3-benzyloxybenzoyl)]-2'-[N'-(N-benzyloxycarbonyl-L-leuciny)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-[4-[3-N,N-dimethylamino)-1-propyloxy]benzoyl]]carbohydrazide;

2-[N-(2-benzyloxybenzoyl)]-2'-[N'-(N-benzyloxycarbonyl-L-leuciny)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-[3-(4-pyridylmethoxy)benzoyl]]carbohydrazide;

2-[N-(4-benzyloxybenzoyl)]-2'-[N'-(N-benzyloxycarbonyl-L-leuciny)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(3-benzyloxy-5-methoxy)benzoyl]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(3-benzyloxy-4,5-dimethoxy)benzoyl]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(3-benzyloxy-5-ethoxy)benzoyl]carbohydrazide;

2-[N-(N-benzyloxycarbonylglyciny)]-2'-[N'-(N-benzyloxycarbonyl-L-leuciny)]carbohydrazide;

2-[N-(3-benzyloxybenzoyl)]-2'-[N'-(N-benzyloxycarbonyl-L-prolinyl)]carbohydrazide;
2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(4-phenylphenylacetyl)]carbohydrazide;
(2'S)-2-[N-(3-benzyloxybenzoyl)]-2'-[N'-(N-benzyloxycarbonyl-2-aminobutyryl)]
carbohydrazide;
2,2'-[N,N'-[bis-4-phenylphenylacetyl]]carbohydrazide;
(2'RS)-2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[2-(4-phenylphenoxy)propionyl]
carbohydrazide;
2-[N-(3-benzyloxybenzoyl)]-2'-[N'-(4-methylpentanoyl)]carbohydrazide;
(2RS,2'RS)-2,2'-[N,N'-[bis-[2-(4-phenylphenyl)-4-methylpentanoyl]]]carbohydrazide;
(2'RS)-2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-[2-(4-phenylphenyl)-4-
methylpentanoyl]]carbohydrazide;
(2'RS)-2-[N-(3-benzyloxybenzoyl)]-2'-[N-[2-(4-phenylphenyl)-4-methylpentanoyl]]
carbohydrazide;
2-[N-(3-benzyloxybenzoyl)]-2'-[N'-(N-benzyloxycarbonyl-N-methyl-L-leuciny)]
carbohydrazide;
2-[N-(3-benzyloxybenzoyl)]-2'-[N'-[N-(2-pyridinylmethoxycarbonyl)-L-leuciny]]
carbohydrazide;
2-[N-[3-(4-pyridylmethoxy)benzoyl]]-2'-[N'-[N-(2-pyridinylmethoxycarbonyl)-L-
leuciny]]carbohydrazide;
(2RS)-2-[N-[2-(4-phenylphenyl)-4-methylpentanoyl]]-2'-[N'-[N-(2-pyridinylmethoxy
carbonyl)-L-leuciny]]carbohydrazide;
2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-[2-(4-phenylphenyl)-4-methylpentanoyl]]
carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-[2-(4-phenylphenyl)-4-methylpentanoyl]]
carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-[N-(4-phenylphenyl)-N-(2-methylpropyl)
carbamoyl]]carbohydrazide;

2-[N-(3-benzyloxybenzoyl)]-2'-[N'-(N-methyl-L-leuciny)]carbohydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-(N-methyl-L-leuciny)]carbohydrazide;

(1S)-N-[2-[(1-benzyloxycarbonylamino)-3-methylbutyl]thiazol-4-ylcarbonyl]-N'-(4-
phenoxyphenylsulfonyl)hydrazide;

(1S)-N-[4-[1-(N-benzyloxycarbonyl-L-leucinylamino)-3-methylbutyl]thiazol-2-ylcarbonyl]-
N'-(N-benzyloxycarbonyl-L-leuciny)hydrazide;

(1S)-N-[2-[(1-benzyloxycarbonylamino)-3-methylbutyl]thiazol-4-ylcarbonyl]-N'-(4-
phenylphenylacetyl)hydrazide;

(1S)-N-[2-[(1-benzyloxycarbonylamino)-3-methylbutyl]thiazol-4-ylcarbonyl]-N'-[3-(4-
pyridinylmethoxy)benzoyl]hydrazide;

N-[2-(2-chlorophenoxymethyl)thiazol-4-ylcarbonyl]-N'-[N-(4-pyridinylmethoxycarbonyl)-L-
leuciny]hydrazide;

N-[N-(4-pyridinylmethoxycarbonyl)-L-leuciny]-N'-[2-[4-(1,2,3-thiadiazol-4-
yl)phenyl]thiazol-4-ylcarbonyl]hydrazide;

N-[2-[3-(4-chlorophenylsulfonylmethyl)thien-2-yl]thiazol-4-ylcarbonyl]-N'-[N-(4-
pyridinylmethoxycarbonyl)-L-leuciny]hydrazide;

(1S,2'RS)-N-[2-[(1-benzyloxycarbonylamino)-3-methylbutyl]thiazol-4-ylcarbonyl]-N'-[2'-(4-phenylphenylacetyl)-4-methylpentanoyl-]hydrazide;

N-[2-(3-benzyloxyphenyl)thiazol-4-ylcarbonyl]-N'-[N-(2-pyridinylmethoxycarbonyl)-L-leuciny]hydrazide;

(1RS)-N-[2-[1-(4-phenylphenyl)-3-methylbutyl]thiazol-4-ylcarbonyl]-N'-[N-(4-pyridinylmethoxycarbonyl)-L-leuciny]hydrazide;

N-[2-(2-benzyloxyphenyl)thiazol-4-ylcarbonyl]-N'-[N-(4-pyridinylmethoxycarbonyl)-L-leuciny]hydrazide;

N-[2-[N-methyl-N-(4-phenylphenyl)amino]thiazol-4-ylcarbonyl]-N'-[N-(4-pyridinylmethoxycarbonyl)-L-leuciny]hydrazide;

N-(N-benzyloxycarbonyl-L-leuciny)-N'-[2-(4-phenylbenzyl)thiazol-4-ylcarbonyl]hydrazide;

N-[2-(4-phenylphenylbenzyl)thiazol-4-ylcarbonyl]-N'-[N-(4-pyridinylmethoxycarbonyl)-L-leuciny]hydrazide;

N-(N-benzyloxycarbonyl-L-leuciny)-N'-[2-[N-(2-methylpropyl)-N-phenylamino]thiazol-4-ylcarbonyl]hydrazide;

N-[2-[N-(2-methylpropyl)-N-phenylamino]thiazol-4-ylcarbonyl]-N'-[N-(4-pyridinylmethoxycarbonyl)-L-leuciny]hydrazide;

N-[2-(2-benzyloxyphenyl)thiazol-4-ylcarbonyl]-N'-[N-(3-pyridinylmethoxycarbonyl)-L-leuciny]hydrazide;

N-[2-(2-benzyloxyphenyl)thiazol-4-ylcarbonyl]-N'-[N-(2-pyridinylmethoxycarbonyl)-L-leuciny]hydrazide;

N-(N-benzyloxycarbonyl-N-methyl-L-leuciny)-N'-[2-(2-benzyloxyphenyl)thiazol-4-ylcarbonyl]hydrazide;

N-[2-[N-(2-methylpropyl)-N-phenylamino]thiazol-4-ylcarbonyl]-N'-[N-(2-pyridinylmethoxycarbonyl)-L-leuciny]hydrazide;

N-[2-[N-(2-methylpropyl)-N-phenylamino]thiazol-4-ylcarbonyl]-N'-[N-(3-pyridinylmethoxycarbonyl)-L-leuciny]hydrazide;

N-[2-(2-methoxyphenyl)thiazol-4-ylcarbonyl]-N'-[N-(4-pyridinylmethoxycarbonyl)-L-leuciny]hydrazide;

2-[N-(N-benzyloxycarbonyl-L-leuciny)]-2'-[N'-[4-(N,N-dimethylaminomethyl)benzyloxy]carbonyl-L-leuciny]carbonhydrazide;

(3S,4S)-3-(2S-2-benzyloxycarbonylamino-2-cyclohexyl-methyl-acetamido)-4-acetoxy-azetidin-2-one;

(3S,4S)-3-{2S-2-(3-phenylpropionoyl)amino-2-cyclo-hexylmethyl-acetamido}-4-acetoxy-azetidin-2-one;

(3S,4S)-3-{2S-2-(3-phenylpropionoyl)amino-2-cyclo-hexylmethyl-acetamido}-4-{4-(2S-2-amino-2-carboxy-ethyl)-phenoxy}-azetidin-2-one;

(3S,4R)-3-{2S-2-(3-phenylpropionoyl)amino-2-cyclo-hexylmethyl-acetamido}-4-{4-(2S-2-amino-2-carboxy-ethyl)-phenoxy}-azetidin-2-one;

(3S,4SR)-3-{2S-2-(3-phenylpropionoyl)amino-2-cyclo-hexylmethyl-acetamido}-4-phenylthio-azetidin-2-one;

(3S,4SR)-3-{2S-2-(3-phenylpropionoyl)amino-2-cyclo-hexylmethyl-acetamido}-4-phenylsulfonyl-azetidin-2-one;

(3S,4S)-3-{2S-2-(benzylaminocarbonyl)amino-2-cyclo-hexylmethyl-acetamido}-4-acetoxy-azetidin-2-one;

(3S,4S)-3-{2S-2-(phenylethenylsulfonyl)amino-2-cyclohexylmethyl-acetamido}-4-acetoxy-azetidin-2-one;

(3S,4S)-3-(2S-2-benzyloxycarbonylamino-2-cyclohexylmethyl-acetamido)4-(3-methyl-phenoxy)-azetidin-2-one;

(3S,4R)-3-(2S-2-benzyloxycarbonylamino-2-cyclohexylmethyl-acetamido)4-(3-methyl-phenoxy)-azetidin-2-one;

(3S,4S)-3-{2S-2-[3-(pyridin-4-yl)propenoyl]amino-2-cyclohexylmethyl-acetamido}-4-phenoxy-azetidin-2-one; and

(3S,4S)-3-{2S-2-[3-(pyridin-3-yl)propenoyl]amino-2-cyclohexylmethyl-acetamido}4-phenoxy-azetidin-2-one.